Jameco Part number 139862

Model

BTA/BTA 1

Industrial Control Relays
Power Type
Large Capacity 10A
1, 2, and 3 Poles

E115915

R10-11D10-24
R10-14A10-120
R10-14A10-24
R10-14D10-12
R10-14D10-24
R02-11A10-120
R02-11A10-24
R02-11D10-12
R02-11D10-24
R02-14A10-120
R02-14D10-12
R02-14D10-24

Note:
Inductive load:
p.f. = 0.4, L/R = 7 msec
Resistive load:
p.f. = 1

CONTRACT RATING

Voltage	Resistive	Inductive	Motor load
28VDC	10A	7A	
120VAC	10A (BTA)	7A	1/8 HP
240VAC	10A (BTA1)		1/3 HP

CONTACT RATING

	Rated voltage (V)	Coil resistance (Ω) ± 10% at 20°C	Max. pick-up voltage	Min. drop-out voltage	Min. allowable voltage	Power consumption
			% of rated voltage at 20°C			
AC	6	6	80 max.	30 Min.	110 Max.	Approx 2.1 VA
	12	21				
	24	85				
	110	1900				
	120	2250				
	220	7200				
	240	9110				
DC	6	32.1		10 Min.		Approx 1.2 W
	12	120				
	24	472				
	48	1800				
	110	10000				
	125	10000				

BTAL has an indicator lamp wired in parallel with it's coil, making this model ideal for voltage or current monitoring applications.
BTA SERIES industrial control relay enclosed in a clear polycarbonate dust cover is UL recognized under file E115915.
This ruggedly constructed relay is offered with silver-cadmium oxide, code "BTA" rated 10 amps 120VAC; code "BTA1" rated 10 amps 240VAC.

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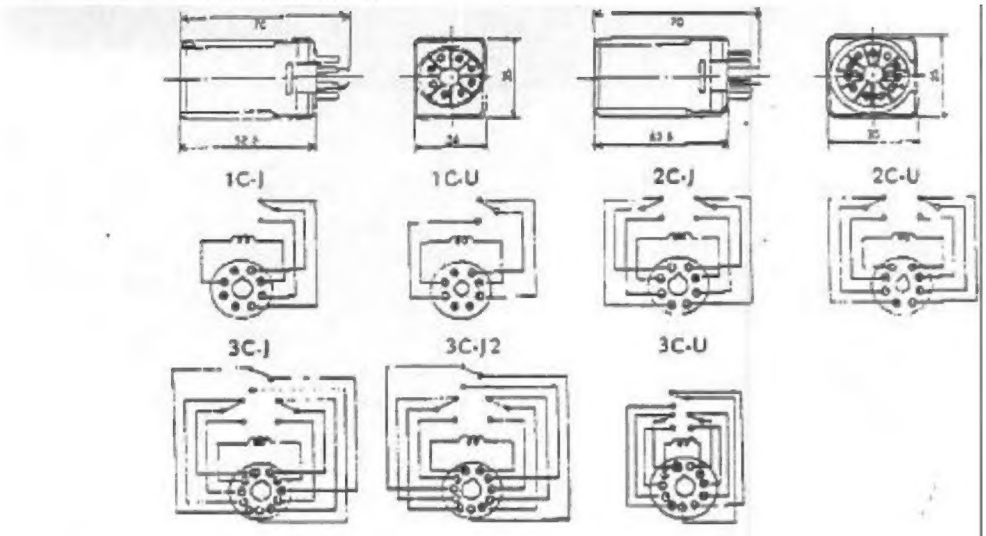
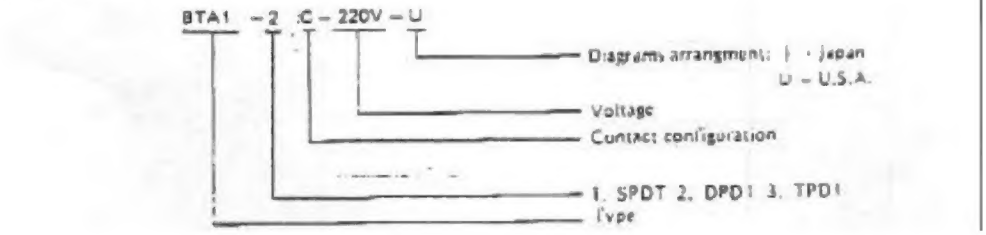
SPECIFICATIONS

Contact resistance	Less than 50m maximum.
[illegible]	Approx 15ms maximum.
[illegible]	Approx 10ms maximum.
[illegible]	100mΩ minimum at 500 VDC.
[illegible]	Between open contact: AC 500V for 1 minute. Between contact and coil: AC 1500V for 1 minute. Between live parts and groud: AC 1500V for 1 minute.
[illegible]	Operating: 10°C to +40°C
[illegible]	More than 10,000,000 operations.
[illegible]	More than 100,000 operations.
[illegible]	AgCdo
[illegible]	85g

DIMENSIONS & WIRE DIAGRAMS



How to order



General Purpose Relays

Contact current: 10 amps

Weight: 0.2 lbs.

Pin Type Terminals - Series 250

Size: 1.4"Lx1.4"Wx2.7"H

Part No.	Product No.	Cross reference	Coil (voltage)	Coil (ohms)	Style	Pins	1 9	10 49	50-99
139758	W250ACPX14	RO2-14A10-120	110/120VAC	1.7K ohm	3PDT	11	$9.98	$8.95	$7.95
139782	W250CPX6	RO2-14D10-12	12VDC	120 ohm	3PDT	11	9.95	8.95	7.95
139744	W250CPX7	RO2-14D10-24	24VDC	470 ohm	DPDT	8	9.95	8.95	7.95
139766	W250CPX6	RO2-11D10-12	12VDC	120 ohm	DPDT	8	9.95	7.95	6.49
139740	W250CPX9	RO2-11A10-120	110VAC	1.9K ohm	DPDT	8	9.95	7.95	6.49
139731	W250ACPX8	RO2-11A10-24	24VAC	85 ohm	DPDT	8	9.95	7.95	6.49

Quick Connect Blade Terminals - Series 388

Size: 1.5"L x 1.4"W x 2.

Part No.	Product No.	Cross reference	Coil (voltage)	Coil (ohms)	Style	Pins	1 9	10 49	50-99
139838	W388ACPX14	R10-14A10-120	120VAC	2.13K ohm	3PDT	11	$9.95	$8.95	$7.25
139854	W388CPX11	R10-14D10-24	24VDC	470 ohm	3PDT	11	9.95	8.95	7.25
139820	W388ACPX13	R10-14A10-24	24VAC	70 ohm	3PDT	11	9.95	8.95	7.25
139846	W388CPX10	R10-14D10-12	12VDC	120 ohm	3PDT	11	9.95	8.95	7.25
139862	W388CPX7	R10-11D10-24	24VDC	460 ohm	DPDT	8	9.95	8.95	7.25

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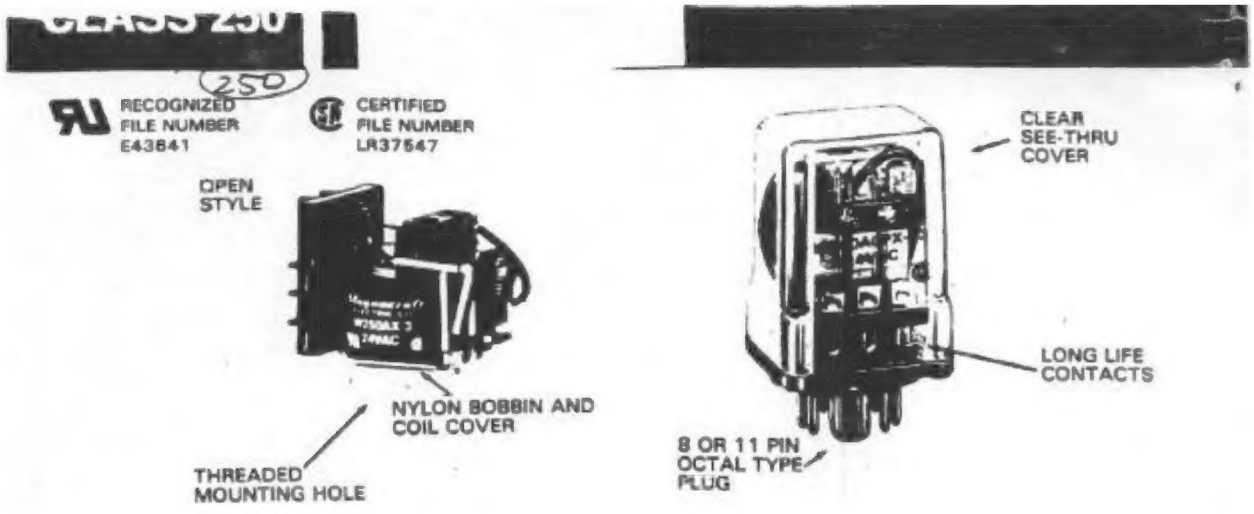


FEATURES:

- Plug-in, printed circuit, or flange mounting with see thru dust covers. Also open type with single screw mounting.
- Standard SPDT, DPDT, and 3PDT contact arrangement. Other con tact combinations available on special order.
- High dielectric strength.
- Solder, printed circuit, and plug-in terminals are standard. Standard solder terminals also accept 110" x 1/32" quick connect receptacles.
- AC or DC operated coils.
- Interchangeable with other general purpose relays of this type.
- Now available with
  1) Test push-button.
  2) L.E.D. or Neon lamp
  3) 14 pin octal plug
- Other Coil Voltages and sensitivities are available on special order.
  Consult Factory.

CONTACT RATINGS

POLES	120VAC	240VAC	28VDC
1 Pole	12A 1/3 HP	12A 1/2 HP	10A
2 Pole	12A 1/3 HP	8A 1/2 HP	10A
3 Pole	10A 1/3 HP	6A 1/2 HP	10A

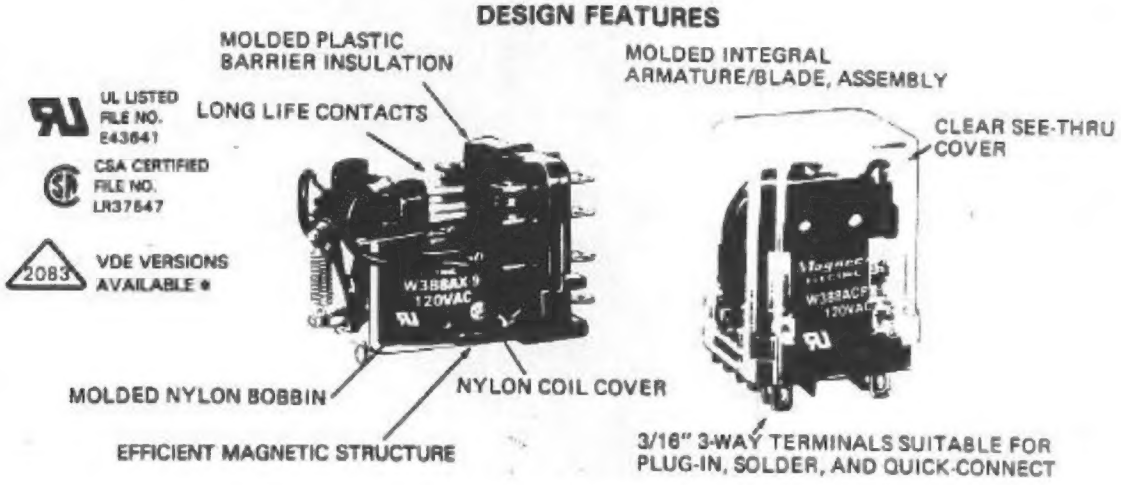
COIL
Coil Voltages
Nominal Voltage Range: Up to 220VDC, up to 300VAC 50/60Hz.
Pick-up Voltage: 80% of nominal or less DC
85% of nominal or less AC
Coil Resistances
Nominal Resistance Range: Up to 40,000 ohms
Coil Power
Minimum Sensitivity: 125 milliwatts per pole
Nominal Power: 1.2 Watt DC or 2VA/2.75VA
Maximum Coil Dissipation: Capability of DC coils 3.0 Watts max.
Duty: Continuous.
CONTACTS
Contact Rating: See ratings chart.
Contact Arrangement: SPDT, DPDT or 3PDT. Form A or B contacts available on special order.
Contact Material: 3/16" Silver cadmium oxide, gold flashed.
Contact Resistance: 0.050 ohms maximum initial, at rated current.
OPERATIONAL CHARACTERISTICS
Timing Values
Operate Time: 25mS or less }
Release Time: 20mS or less } at nominal coil voltage.

SPECIFICATIONS
INSULATION CHARACTERISTICS
Dielectric Strength
Contact To Coil: 1500 VRMS
Across Open Contacts: 1000 VRMS
Pole to Pole: 1500VRMS
Contacts To Frame: 1500VRMS
Insulation Material: Molded plastic.
Insulation Resistance: 1 x 10%r3%r megohms min.
ENVIRONMENTAL CAPABILITIES
Ambient Temperature Operating: -10°C to +50°C (AC Relays).
-10°C to +60°C (DC Relays).
Non-Operating (Storage): -30°C to +105°C.
Shock
Operating: 5 G's
Non-Operating (Transporting): 20 G's
Vibration
Operating: 5 G's, 10 to 55Hz
Non-Operating (Transporting): 10 G's, 10 to 55Hz
MISCELLANEOUS
Enclosure: Octal style Plastic dust cover
Terminals: Solder type plug-in, or printed circuit.
Weight: Open--2 1/2 ozs./70.9 grams.
Enclosed--3 1/2 ozs./99.2 grams.

Jameco Part number 139862

CLASS 388 ERAL SPECIFICATIONS

DESIGN FEATURES


MOLDED PLASTIC BARRIER INSULATION
MOLDED INTEGRAL ARMATURE/BLADE, ASSEMBLY
UL LISTED FILE NO. E43641
LONG LIFE CONTACTS
CSA CERTIFIED FILE NO. LR37647
CLEAR SEE-THRU COVER
VDE VERSIONS AVAILABLE *
MOLDED NYLON BOBBIN
NYLON COIL COVER
EFFICIENT MAGNETIC STRUCTURE
3/16" 3-WAY TERMINALS SUITABLE FOR PLUG-IN, SOLDER, AND QUICK-CONNECT

Class 388 General Purpose Relays are an inexpensive, high performing line of relays. Available in either a covered plug-in, covered flange mount, or open style with a wide choice of AC or DC voltages, SPDT, DPDT, or 3PDT contact arrangements, are rated up to 17 amps. Class 388 and 388CO relays have 3-way pierced terminals. While spaced for standard plug-in mounting, the flat terminals (0.187" x 0.020") also accept quick-connect receptacles or direct soldering. For plug-in use, three chassis mounted sockets are available; quick-connect, solder or printed circuit terminals. Hold down clip 16-772-2 for plug-in types is optional. Screw terminal sockets are also available.

TYPICAL OPERATING CHARACTERISTICS
(FOR DC VOLTAGE SPECIFIED TYPES ONLY)

POLES	SPDT	DPDT	3PDT
MIN. OPERATE MW (SENSITIVITY)	**125**	**250**	**375**
OPERATE TIME MS MAXIMUM	18.0	20.0	24.0
RELEASE TIME MS MAXIMUM	**30.0**	**28.0**	**26.0**

†Values at Nominal Operating Voltage

* VDE VERSIONS AVAILABLE WITH CONTACT RATINGS OF 10AMPS@250VAC (RESISTIVE LOAD), 4AMPS@250VAC (INDUCTIVE LOAD-.4PF).

SPECIFICATIONS

COIL
Coil Voltages
Nominal Voltage Range: See table that accompanies each illustrated relay version, for standard voltages. Intermediate voltages available up to 220VDC 300VAC 50/60Hz. Except 388ANCP version available only as stated in "Specifications" fo?? that version.
Pick-up Voltage: 75% of nominal or less for DC relays @ 25°??
85% of nominal or less for AC relays @ 25°??
Coil Resistances
Nominal Resistance Range: To 60,000 ohms
Coil Power
Maximum Coil Dissipation: Capability of DC coils: 3.0 Watts max. continuous.
Min. Operate: 125 milliwatts per pole (DC relays)
CONTACTS
Contact Arrangement: SPDT, DPDT, 3PDT standard. Other contact combinations available.
Contact Material: Silver cadmium oxide gold flashed.
INSULATION CHARACTERISTICS
Dielectric Withstanding Voltage
Contact To Coil: 2000VAC RMS
Across Open Contacts: 500VAC RMS
Pole to Pole: 2000VAC RMS
Contact To Frame: 2000VAC RMS
ENVIRONMENTAL CAPABILITIES
Ambient Temperature Operating: -30°C to +50°C for AC relays.
-30°C to +85°C for DC relays.
Non-Operating (Storage): -30°C to +100°C
MISCELLANEOUS
Enclosure: Clear polycarbonate plastic.
Terminals: Specific terminals provided as standard are described in the text for each particular relay. Types of terminals available are "Quick-connect," sizes 3/16" x.020", 205" x.032", .250" x.032" and printed circuit terminals.
Weight: 2.3 ozs. (65.2 grams) without cover.
3.1 ozs. (88 grams) with cover.